

AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently Amended) At least one integrated circuit comprising:
image processing circuitry;
said image processing circuitry being adapted to process digital pixel output signals produced by a digital imaging array including imaging array sensors; and
said image processing circuitry being adapted to process saturated digital pixel output signals differently from non-saturated digital pixel output signals including sampling a dark image in regions corresponding to regions of saturated digital pixel output signals, wherein said image processing circuitry processes saturated digital pixel output signals by subtracting an estimate of a dark image fixed pattern noise for said imaging array sensors and estimates dark fixed pattern noise by sampling from the dark image comprising stored digital pixel output signals.
2. Canceled.
3. Canceled.
4. Canceled.
5. (Previously Presented) The at least one integrated circuit of claim 1, wherein said image processing circuitry is adapted for use with imaging array sensors comprising at least one of a CCD sensor and a CMOS sensor.
6. (Original) The at least one integrated circuit of claim 1, wherein the image processing circuitry comprises dark fixed pattern noise reduction circuitry.
7. (Original) The at least one integrated circuit of claim 6, wherein the fixed pattern noise reduction circuitry comprises dark fixed pattern noise reduction circuitry.

8. (Original) The at least one integrated circuit of claim 1, wherein said image processing circuitry is adapted to detect regions of saturated digital pixel output signals in an image of interest.

9. (Currently Amended) A digital camera comprising:
a digital imaging array comprising a plurality of pixels, and imaging processing circuitry to process the digital pixel output signals produced by said imaging array; and
said imaging processing circuitry being adapted to process saturated digital pixel output signals differently from non-saturated digital pixel output signals, including sampling a dark image in regions corresponding to regions of saturated digital pixel output signals in an image of interest, wherein said imaging processing circuitry estimates dark fixed pattern noise by sampling from the dark image comprising stored digital pixel output signals and processes saturated digital pixel output signals by subtracting an estimate of a dark image fixed pattern noise for said imaging array sensors.

10. Canceled.

11. Canceled.

12. Canceled.

13. (Previously Presented) The digital camera of claim 9, wherein said image processing circuitry is adapted for use with imaging array sensors comprising at least one of a CCD sensor and CMOS sensor.

14. (Original) The digital camera of claim 9, wherein the image processing circuitry comprises fixed pattern noise reduction circuitry.

15. (Original) The digital camera of claim 14, wherein the fixed pattern noise reduction circuitry comprises dark fixed pattern noise reduction circuitry.

16. (Original) The digital camera of claim 9, wherein said image processing circuitry is adapted to detect regions of saturated digital pixel output signals in an image of interest.

17. (Currently Amended) A method of processing digital pixel output signals produced by a digital imaging array including imaging array sensors comprising:

processing saturated digital pixel outputs differently from non-saturated digital pixel output signals including sampling a dark image in regions corresponding to the regions of saturated digital pixel output signals; and

estimating a dark image fixed pattern noise for said imaging array sensors including sampling from the dark image comprising stored digital pixel output signals, wherein processing saturated digital pixel output signals differently includes subtracting an estimate of the dark image fixed pattern noise for said imaging array sensors.

18. Canceled.

19. Canceled.

20. Canceled.

21. (Currently Amended) The method of claim ~~18~~ 17, wherein said imaging array sensors comprise at least one of a CD sensor and a CMOS sensor.

22. (Original) The method of claim 17, wherein processing saturated digital pixel output signals comprises fixed pattern noise reduction processing.

23. (Previously Presented) The method of claim 22, wherein fixed pattern noise reduction processing comprises dark fixed pattern noise reduction processing.

24. (Original) The method of claim 17, wherein processing saturated digital pixel output signals includes detecting regions of saturated digital pixel output signals in an image of interest.